

- A2
canceled.
- c) inserting the at least one gene into a multicopy plasmid capable of replicating and expressing in the pathogenic micro-organism;
- d) transforming an attenuated or avirulent strain [version] of the otherwise pathogenic micro-organism with the plasmid to form a vaccine; and
- e) administering an effective amount of said vaccine to the vertebrate.

B3
A3

27. (Amended) The method of claim 26, wherein the pathogenic micro-organism is Brucella selected from the group consisting of *B. abortus*, *B. melitensis*, *B. suis*, *B. ovis*, *B. neotomae* and *B. canis*.

Please add new Claims 31-34 as follows:

--31. The method of claim 26, wherein the pathogenic micro-organism is *Mycobacterium*.

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32. The method of claim 31, wherein the at least one gene is a GroEL gene.

33. The method of claim 26, wherein the pathogenic micro-organism is *Vibrio*.

34. The method of claim 33, wherein the at least one gene is a ctxB gene.--

REMARKS

Examination and consideration of the above-identified matter in view of the above amendments and the following remarks is respectfully requested.